

This is most emphatically "the bearing year," with apples. Not only are the apple orchards in full bearing, but every superannuated and half-decayed tree, and every scrub and chance seedling by the roadside, is loaded with fruit seldom seen in a lifetime. With this abundance it is evident that with apples there will be a glut in the market. There will be no room except "higher up," and those who send poor fruit to market had better use their barrels for fire-wood and save the freight charges. There is always a certain demand to be met, but this year only the select fruit will supply it. In years of plenty, careful selection and neat packages tell. The almost daily inquiries as to fruit-dryers show that preparations are being made to dry a share of this abundance, and to use by this article to anticipate the inquiries which soon be made as to disposing of the fruit in the various liquid forms. Apple juice is common from the press, or "sweet cider," is liked by many, and we have inquiries as to keeping it in the unfermented state. Preserving powders are advertised, and some of these from their effectiveness in preserving fruit will no doubt keep fruit juice equally well. The majority will wish to preserve their sweet cider without addition, and these can treat it by the same method used in canning fruit. Heat the cider to the boiling point, bottle and cork it while still hot. When apple juice is exposed to the air, the natural ferment it contains causes a change to take place. The sugar in the juice is converted into alcohol, and carbonic acid is given off. This process may be carried on until all the sugar is decomposed, when it is "hard" cider. The fermentation may be arrested at the desired point by bottling, and sparkling cider will be the result. This, which is also called "champagne cider," can only be produced by bottling before the fermentation is quite finished. The best still cider is made from late-ripening apples, when the weather is cool, fermented slowly at as low a temperature as possible, taking care to exclude the access of air; when fermentation has quite ceased, the cider should be racked off into a clean cask, and kept securely bunged or bottled. The great use of apples in this year will be to make vinegar. In the fermentation of cider, the sugar of the apple-juice is converted into alcohol, and in making vinegar, that alcohol is changed into acetic acid. The conditions of this change are full exposure to the air and a high temperature. The richer the cider in alcohol, the stronger will be the vinegar, and the more slowly will the change take place. Ordinarily, the cider is put away in the cellar or some out-building, and in time, it may be two or three years or more, will be found to be changed into vinegar. Those who have heard of the "quick vinegar process," thinking it can be applied to cider, we are often asked to give a description of it. In this process, a liquor containing alcohol, usually in the form of cheap whisky, is converted into vinegar in a few hours. But this is not applicable to cider, for in the fermentation of cider or other fruit juices, the change into vinegar is accompanied by the growth of a very low form of plant, "the mother," as it is usually called, and this would stop up the apparatus of the quick method as to very soon put a stop to it. Still, the change of cider may be greatly hastened. Those who make cider vinegar on a large scale have a house especially for the work, and this is heated to about 70 deg. Vinegar can not be made rapidly at a much lower temperature. Exposure to the air is important, hence the case is not filled, but only bunged so, in order to expose a broad surface of the liquid to the action of the air. Exposure is increased by frequently transferring the cider from one cask to another, letting it run very slowly. Exposure can be promoted by allowing the partly formed vinegar to slowly run down a long trough, and also by allowing it to trickle over corn cobs placed in a cask, the cobs having been previously washed and soaked in good vinegar. Old vinegar acts as a ferment, and hastens the change, and the mixing of new and partly formed vinegar with a portion of old strong vinegar helps the change. Another method to hasten vinegar making is to add yeast to cider, or what produces the same effect, the "mother" from vinegar barrels. The conditions for the most rapid conversion of cider into vinegar may be summed up: A temperature of at least 70 deg., all possible exposure to the air, the addition of old vinegar to the new or the use of "mother." It should be remembered that the weaker the cider in sugar the weaker will be the vinegar, and the more rapid the change.—*American Agriculturist*.

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### Perpetual Pig-troughs.

A CORRESPONDENT "wants to know the best kind of wood to make hog-troughs out of so they will last and so the hogs will not eat them up. I answer, make them out of iron, not out of ironwood, but cast-iron. I grappled with this problem a half-dozen years ago and mastered it. I became an inventor. I had an invention put into the form of a model, and got the proprietors of an iron foundry to cast eight troughs after the model. They were put into the different pens and they are there now, bright, clean, smooth, sound and all right, and I expect to leave them just in this shape to my heirs. The model cost \$18, and the troughs six cents a pound, and they weighed an average of at least one hundred pounds. The spout is cast with the trough in one solid piece, and there are also feet cast, and attached, by which it is fastened to the floor. The corners are made rounding and so is the bottom, so that freezing does not crack them, as the ice does not press against the corners or sides but around the whole. They are easily cleaned out, as the sloping sides allow the dirt to slide out, and only the floor is away from the sides and will never wear out. The wear and waste and annoyance of modern troughs became unbearable. Now I contemplate this part of farm experience with a feeling akin to perfect satisfaction. P. S.—The trough is not patented.—*F. D. Curtis, in New York Tribune*.

**PORK** can be made cheaper in summer than in winter.

**THIN SPOTS** in grass fields sow with grass seed and scratch them in with a harrow, and give a light dressing with some fine manure.

**CUCUMBER CATSUP.**—One dozen of large green cucumbers (grated), one pint of grated onions and one pint of grated horse-radish. Put in a jar, and mix with cloves and pepper; scald with vinegar and pour on hot.

**PAN PIE.**—Line a deep tin with pie-crust, fill with the best fat apples; cut thin slices of pork and lay over the top; sweeten with half brown sugar and the best molasses; a little salt and sprinkle of allspice. Bake three hours in a slow oven.

**HOVEN, OR BLOAT.**—The German method of curing cattle is to pour several bucketfuls of cold water over the backs of the animals, and placing a piece of garlic in their throats. Half a peacupful of common baking soda, if dissolved in water and given in the form of a drench, is said to be equally effective.

**DISEASE FROM COW'S MILK.**—According to the experiments of Dr. Bollinger, the milk of cows suffering from tubercular disease is capable of communicating this affection to human beings. As five per cent. of cows, when advanced in life, suffer from this disease, the danger is considerable. Boiling the milk is not a safeguard.

**RUSK.**—Two eggs, one cup of sugar, half-cup butter, half-pint milk, one-third cup yeast. Beat eggs and sugar together, and mix soft with a little flour. Let them stand over night, and in the morning mix with eggs. When light, make into biscuits. Let them rise again, then bake. When taken from the oven, crush the top with milk and sugar.

**IN THE LAUNDRY.**—Boiled starch is much improved by the addition of a little spermaceti or a little salt, or both, or a little gum arabic dissolved. Beeswax and salt will make flat-irons as clean and smooth as glass; tie a lump of wax in a rag, and keep it for that purpose; when irons are hot, rub them with the wax rag, then scour with a paper or rag sprinkled with salt. Kerosene will make tin kettles as bright as new; saturate a woolen rag and rub with it; it will also remove stains from clean varnished furniture.

**CANNED PEARS.**—For the finer varieties, such as the Bartlett or Seckel, prepare a sirup, allowing a pint of water and a quarter-pound of sugar to a quart of fruit. Drop each pear, after it is pared, into a pan of clear water. When the sirup has come to a fast boil, put in the pears carefully, not to bruise them, and boil them until they look clear and can be easily pierced with a fork. Have the pears rolled in hot water, pack with the pears and fill to overflowing with the scalding sirup, which must be kept on the fire all the while, and seal. Apples may be treated in the same way.

Any family can replenish their vinegar keg indefinitely. Put all the paring and cores of sound fruit, scraps of tomatoes, scum and rinsings of preserving kettles, and the pulp remaining in the jelly press, into a stone jar, cover with warm water, tie a thin cloth over the top, and set it in the sun in summer; in cold weather, near the stove. At the end of two weeks strain the liquid through a bag, and pour it into the keg through a funnel, first drawing out some of the good vinegar for immediate use. Where much fruit is used, the refuse portion will be amply sufficient for keeping a plentiful supply of vinegar on hand.

**Castor Oil the Best Lubricant.**

MR. S. H. SMITH asks if castor oil is not too glutinous for the best service for wagon grease and for use on machinery. For watches it would be; but a brief reflection on the character of friction under common conditions will convince Mr. Smith that an oil which will remain in the journal instead of leaking out is the most desirable. In all kinds of coarser machinery, such as steam engines, mowing-machines, etc., the greater part of the friction arises from the imperfectness of the workmanship in the binding of the bearings from being thrown out of line with the shaft, and the accidental pressure of foreign substances, so that resistance offered by the mere stickiness of the lubricating substance becomes of no importance.

A great difficulty with all tyros in the use of machinery is the wasting of oil by its too profuse use. It often happens that a bearing will heat when supplied with too much oil that will run cool when served with the proper quantity. The reason is that when the lubricator is partly worn it becomes, as Mr. Smith says, sticky; it resists removal; it remains tenaciously between the shaft and its bearing, whereas it should serve to "wash the bearing" and let the shafts into closer contact. In the working of mowing-machines this point may be exemplified. In grass land, where flying dust is at the minimum, the machine should be kept oiled just sufficiently so that the shafts will show an oily film as seen through the oil holes, and the slightest appearance of fresh oil at the ends of the boxes; any more is an injury. While in use for mowing grain, where dust is usually considered very destructive, all parts should be kept oiled so freely as to keep the bearings always well washed—that is, oil continually working out—then the grit can not work in.

Castor oil is not used largely in machinery in this country because of its cost, but as a lubricant for all coarse machinery it can hardly be excelled. It is especially adapted for light buggy, and the writer has run a buggy over fifty miles with one oiling, and on examination found the axles in splendid condition, probably good for twenty-five miles more—steel axles close fitted. If Mr. Smith will note the wrench the bearing gets every time the wheel is turned from its course he will probably be convinced that he wants an oil of more adherence enough to withstand considerable pressure and *stay there*. The writer is an engineer of practical service, and has twenty years' experience as

The women are steadily coming to the front. Here is Dr. Alice Bennett in full charge of the women's department in the Eastern Pennsylvania Hospital; Dr. Mary Cleaves, Superintendent of the women's department of the Harrisburg Asylum; Dr. Jennie McGowan, Assistant Physician in the Mount Pleasant (Iowa) Hospital; Dr. Julia Carey, Assistant Physician in the Danvers (Massachusetts) Hospital; Dr. Eliza Phelps, at the new Iowa Asylum; Dr. Helen Bissell, at Kalamazoo, Mich., and Dr. Emma Randall, at Pontiac, Mich. These ladies, we believe, are all well fitted for the work in which they are engaged, and the wisdom of employing competent women as physicians for women, especially in hospitals for the insane, can not be doubted.

—It is well known that fashion in woman's costume is a most sordid and merciless speculation which, while it hoards the wealth of a Nation, robbing toil and poverty of their pittance, consumes human energies, perverts all functions, occupies the most of woman's time, makes her a specimen of folly and beguiles her to all this by appeals to her vanity and assurances of that approval and love which is her bane, and should be her disgust.—Mrs. Tillotson, in Dr. Foote's Health Monthly for September.

[St. Louis Globe-Democrat.]

**An Unpleasant Youthful Recollection.**

From early youth I had been a sufferer from severe headache, writes C. W. Eck, Esq., proprietor of the St. Louis, Mo., St. Louis Co. Waechter. Many remedies, by the use of which I endeavored to obtain relief, proved ineffectual. At last some friends recommended the Hamburg Drops to me; and since I used these I have been free, and no sign of the old headache has appeared again.

—An economical father writes to his son, "My dear boy, I send you six new shirts, made from six old ones of mine. When you are through with them send them back; they will make six new ones for your little brother."

[Cincinnati Irish Citizen.]

Mr. C. O'CALLAHAN, of 171 Sycamore street, is another grateful witness to the infallible power of St. Jacobs Oil, which he tells us has made a new man of him.

**The Most Desirable Stove to Buy.**

All our customers agree in saying that the CHARTER OAK COOK STOVE is the best. The best Cook Stove they ever used or sold, and believe its large high oven, ample warming closet, and an excellent Reservoir, make it the most desirable stove that a housekeeper can buy.

**Forgetfulness of People.**

We would not, by enticing headings and other device, lead you to doubt the virtues possessed by Pierce's Celebrated Medicines were it not that we are aware of the forgetfulness of people, and that must be our excuse. We are not telling you that Dr. Pierce's Golden Medical Discovery is without an equal as a blood-purifier. It cures all humors, from the common blotch, pimple, or eruption of the face, to the worst scrofula, fever, sore or ulcer. Dr. Pierce's Pellets are a pleasant but efficient cathartic. Sold by druggists.

St. Cloud House, Chicago, Ill., Jan. 30, 1879.

Hon. R. V. PIERCE, M. D.:

Dear Doctor—I have been using your Golden Medical Discovery and Pellets for liver complaint and indigestion, and am enabled to express the gratitude I feel. It is simply wonderful the effect your medicines have had upon me. I am in your way a thousand percent better. I am, yours truly,

J. C. DAVIDSON.

**Bakes Perfectly.**

The CHARTER OAK COOK STOVE now in my kitchen has been used ten years. It bakes perfectly with less fuel than any stove that I know of; is perfectly clean, no dust or ashes escape into the room, and I cheerfully recommend it to any housekeeper wanting a first-rate stove.

**Dividend-Paying.**

The following is found in the columns of the Standard Oil Review: "Parties, after using Warner's Safe Kidney and Liver Cure, pronounce it the best dividend-paying (in health and happiness) property they ever handled."

**Facts and Figures.**

Every one of the more than 400,000 CHARTER OAK STOVES now in use, and many hundreds of others, proved eminently practicable, easily kept in order, doing all kinds of cooking quickly, cleanly and with great economy of fuel and labor.

**WILFORD'S Fever and Ague Tonic,** the old reliable remedy, now sells at one dollar.

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**The Frazer Axle Grease** is the best and only Genuine. We know it.

**BRICK DUST DEPOSIT** is a symptom of serious Kidney Disease. Hunt's Remedy cures it.

**THE MARKETS.**

NEW YORK, September 16, 1880.

CATTLE—Choice Steers.....	3 50	@ 10 25
COTTON—Midling.....	3 00	@ 11 1/2
FLOUR—Good to Choice.....	4 40	@ 6 25
WHEAT—Prime Steam.....	3 25	@ 7 50
Spring, No. 2.....	1 05	@ 1 06 1/2
CORN—No. 2.....	50	@ 51
OATS—No. 2.....	40	@ 41
PORK—New Mess.....	15 50	@ 15 75

ST. LOUIS.

COTTON—Midling.....	3 00	@ 11 1/2
BEEVES—Choice.....	4 00	@ 5 25
Native Cows.....	2 25	@ 3 00
Texas Steers.....	3 75	@ 5 40
SHEEP—Fair to Choice.....	3 00	@ 4 40
FLOUR—XX to Choice.....	4 00	@ 9 10
WHEAT—No. 2 Winter.....	40	@ 87 1/2
No. 3.....	39	@ 87 1/2
OATS—No. 2 Mixed.....	25	@ 4 50
RYE—No. 2.....	82	@ 82 1/2
TOBACCO—Dark Lugs.....	3 85	@ 4 25
HAY—Choice Timothy.....	13 50	@ 14 00
BUTTER—Choice Dairy.....	20	@ 22
EGGS—Prime Steam.....	32	@ 37 1/2
PORK—Standard Mess.....	15 75	@ 16 00
BACON—Long Clear.....	08	@ 09 1/2
LARD—Prime Steam.....	09	@ 08 1/2
WOOL—Tub-washed, Med'm.....	43	@ 45
Unwashed.....	27	@ 29

CHICAGO.

CATTLE—Native Steers.....	4 50	@ 5 10
HOGS—Good to Choice.....	5 20	@ 5 75
FLOUR—Good to Choice.....	4 65	@ 5 25
FLOUR—Spring.....	5 00	@ 5 75
WHEAT—Spring, No. 2.....	4 00	@ 5 00 1/2
Spring, No. 3.....	92	@ 95
CORN—No. 2.....	39	@ 40 1/2
OATS—No. 2.....	32	@ 33 1/2
RYE—No. 2.....	82	@ 82 1/2
PORK—Mess.....	17 50	@ 17 75

NEW ORLEANS.

CATTLE—Native Steers.....	3 25	@ 4 25
HOGS—Sales at.....	2 50	@ 3 00
WHEAT—No. 3.....	4 65	@ 5 25
No. 2.....	4 80	@ 5 40
No. 3.....	39	@ 40 1/2
CORN—No. 2 Mixed.....	25	@ 26 1/2
OATS—No. 2.....	22	@ 23 1/2

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DR. J. SEYMERS, Lebanon, Ohio

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